## INTERNATIONAL SEARCH REPORT

International application No.

A. CL	SSIFICATION OF SUBJECT AND ASSISTED	PCT/US04/203	25
IPC(7)	SSIFICATION OF SUBJECT MATTER : F04B 43/06, 35/00		
US CL	: 417/395 399 401 402		
According	o International Patent Classification (IDC)		
B. FIE	DS SEARCHED	tional classification and IPC	
Minimum d	ocumentation searched (classification system followed b		
U.S. :	417/395, 399, 401, 403	y classification symbols)	
Documentar	on sourched other st		
	ion searched other than minimum documentation to the	extent that such documents are include	ed in the Galde
			od in the fleros searched
Electronic d	ata base consulted during the international search (name USPAT, USOCR, EPO, JPO, DERWENT, IBM-TDB;	of data base and	
O2-LOPUR	USPAT, USOCR, EPO, JPO, DERWENT, IBM-TDB:	detent dase and, where practicable,	search terms used)
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C. DOC	UMENTS CONSIDERED TO BE RELEVANT		
category *	Citation of document, with indication, where are	consists of the sale	
X	US 3,781,141 A (Schall) 25 December 1973 (25.12.15 ln. 50-59, Col. 6, ln. 20 - Col. 7, ln. 3, Col. 8, ln. 20	973) See col 6 la 2 16 2	Relevant to claim No
Y	In. 50-59, Col. 6, In. 20 - Col. 7, In. 3, Col. 8, In. 20	1-25, Col. 7 In 63-Col. 9 1- 14	1-2, 9, 19-21
•		, 55 , in. 05-Cor. 8, in. 14,	
Y	US 5 782 617 A (Habita At 1 ) 200		3-8 and 10-18
_	US 5,782,617 A (Habla) 21 July 1998 (21.07.1998.),	See col. 6, In. 63 - Col. 7, In. 4.	6, 10, 15
Y	US 4,551,076 A (DuBois) 05 November 1985 (05.11.1	1005	0, 10, 15
	(U3.11.)	1985), See col. 7, In. 27-31.	3-18
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7			
Further	documents are listed in the continuation of Box C	See potent 5	
Further Sp	documents are listed in the continuation of Box C.	See patent family annex.	
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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/20325

sheet)	II Observations where certain claims were found unsearchable (Continuation of item 2 of first
	national search report has not been excellent di
reasons:	national search report has not been established in respect of certain claims under Article 17(2)(a) for the following
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. \( \sum \)	Claims Nos.: 21 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule ).
Box No. 1	II Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Intern	ational Searching Authority found multiple inventions in this international application, as follows:
2.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.  As all searchable claims could be searched-without effort justifying an additional fee, this Authority did not invite payment of any additional fee.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
1.	As all searchable claims could be searched-without effort justifying an additional fee, this Authority did not invite payment of any additional fee.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:  No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: